

**IBM**

**Personal System/2  
Facts and Features**

**PS/2 it!**

**October 1990**

Use this handy reference to make quick comparisons of IBM Personal System/2® models—and check their options, too. It presents basic facts and features—as well as attachment cards and enhancement products—for the entire PS/2® family.



## Personal System/2 model comparisons

| Personal System/2 Model               | 25   | 25 286   | 30 286  |
|---------------------------------------|--|--|---|
| <b>Machine numbers</b>                | 8525-001, -004, -G01, -G04, -L01, -L04                               | 8525-006, -G06, -036, -G36   | 8530-E01, -E21, -E31  |
| <b>Processor</b>                      | 8086   | 80286  | 80286   |
| Co-processor (optional)               | 8087   | 80287  | 80287   |
| Speed (MHz)                           | 8  | 10   | 10  |
| Memory cache                          | None   | None   | None  |
| <b>Bus architecture</b>               | PC   | AT   | AT  |
| Data path                             | 8-bit  | 16-bit   | 16-bit  |
| <b>User memory (RAM)</b> <sup>2</sup> | 512KB–640KB<br>640KB (-L01, -L04)<br>640KB                           | 1MB–4MB  | 1MB–4MB   |
| Standard—maximum on system board      |  |  |   |
| System maximum (addressable)          | 16MB <sup>3</sup>  | 16MB   | 16MB  |
| <b>Integrated functions</b>           | Yes<br>MCGA<br>No<br>Yes<br>Yes<br>No<br>Optional<br>Yes<br>No<br>No | Yes<br>VGA<br>No<br>Yes<br>Yes<br>No<br>Optional<br>Yes (-036, -G36) <sup>4</sup><br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Yes<br>Yes<br>Yes |
| Parallel/serial/pointing device ports |  |  |   |
| Graphics                              |  |  |   |
| Display port                          |  |  |   |
| Built-in display                      |  |  |   |
| Disk/diskette controller              |  |  |   |
| SCSI                                  |  |  |   |
| Network adapter                       |  |  |   |
| Key lock                              |  |  |   |
| Clock/calendar                        |  |  |   |
| Security password                     |  |  |   |
| <b>Diskette drives, 3.5-inch</b>      | 720KB/2  | 1.44MB/2 (-006, -G06),<br>/1 (-036, -G36)  | 1.44MB/2 (-E01),<br>/1 (-E21, -E31)                             |
| Capacity/maximum number supported     |  |  |   |
| <b>Fixed disk storage</b>             | 0–20   | 0–30 (-006, -G06) <sup>5</sup><br>30 (-036, -G36)  | 0–30 (-E01) <sup>5</sup><br>20 (-E21)<br>30 (-E31)              |
| Standard—maximum (MB)                 |  |  |   |
| Average seek time                     | 80ms   | 27ms (30MB)  | 39ms (30MB)<br>27ms (20MB)                                      |
| <b>Expansion slots (available)</b>    | 2 <sup>6</sup>   | 2 <sup>6</sup>   | 3   |
| <b>Power supply</b>                   | 90-watt (-001, -G01, -L01)<br>115-watt (-004, -G04, -L04)            | 124.5-watt   | 90-watt   |
| <b>Operating systems</b>              | 3.3, 4.0<br>No<br>No   | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>No  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>No                               |
| DOS                                   |  |  |   |
| Operating System/2®                   |  |  |   |
| AIX® Personal System/2                |  |  |   |

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<sup>③</sup>Processor upgrade (-A61, -A21).

<sup>④</sup>128KB of this memory is reserved for hardware system use on Models 55 SX, 55 LS, P70 386, 70 386, 70 486.

<sup>⑤</sup>Achieving this configuration requires installation of non-IBM memory cards.



| <b>50 Z</b>   | <b>55 SX</b>  | <b>55 LS</b>   | <b>65 SX</b>  | <b>P70 386</b>   | <b>70 386</b>   |
|---|---|--|---|--|---|
| 8550-031, -061  | 8555-031, -061  | 8555-LT0, -LE0   | 8565-061, -121, -321  | 8573-031, -061, -121   | 8570-E61, -061, -121, -A61, -A21  |
| 80286<br>80287<br>10  | 80386SX™<br>80387SX<br>16   | 80386SX<br>80387SX<br>16   | 80386SX<br>80387SX<br>16  | 80386™<br>80387<br>16 (-031)<br>20 (-061, -121)  | 80386/i486™<br>80387<br>16 (-E61)<br>20 (-061, -121)<br>25 (-A61, -A21)                 |
| None  | None  | None   | None  | None   | 64KB (-A61, -A21)   |
| Micro Channel®<br>16-bit  | Micro Channel<br>16-bit   | Micro Channel<br>16-bit  | Micro Channel<br>16-bit   | Micro Channel<br>32-bit  | Micro Channel<br>32-bit   |
| 1MB-2MB   | 2MB-8MB   | 2MB-8MB  | 2MB-8MB   | 2MB-8MB (-031)<br>4MB-8MB (-061, -121)<br>16MB   | 2MB-6MB (-E61, -061, -121)<br>2MB-8MB (-A61, -A21)<br>16MB                              |
| 16MB  | 16MB  | 16MB   | 16MB  |  |   |
| Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Token-Ring or Ethernet™<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Standard<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>Yes/gas plasma<br>Optional<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes |
| 1.44MB/2  | 1.44MB/1  | 0/1 (1.44MB)   | 1.44MB/2  | 1.44MB/1   | 1.44MB/2  |
| 30 (-031)<br>60 (-061)  | 30 (-031)<br>60 (-061)  | 0-60   | 60-1GB (-061)<br>120-1.1GB (-121)<br>320-1.28GB (-321)                                  | 30 (-031)<br>60 (-061)<br>120 (-121)   | 60 (-E61, -061, -A61)<br>120 (-121, -A21)   |
| 39ms (30MB)<br>27ms (60MB)  | 39ms (30MB)<br>27ms (60MB)  | 32ms (30MB)<br>23ms (60MB)   | 23ms (60MB, 120MB)<br>12.5ms (320MB)  | 19ms (30MB)<br>27ms (60MB)<br>23ms (120MB)   | 27ms (60MB)<br>23ms (120MB)   |
| 3   | 3   | 2  | 7   | 2 <sup>6</sup>   | 3   |
| 94-watt   | 90-watt   | 90-watt  | 250-watt  | 85-watt  | 132-watt  |
| 3.3, 4.0<br>SE, EE 1.2, 1.3<br>No   | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2 (-061)                                   | 3.3, 4.0<br>No <sup>7</sup><br>No  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2 (-061, -121)  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.1, 1.2   |

<sup>4</sup>Secures fixed disk only.

<sup>5</sup>Second diskette drive and fixed disk are mutually exclusive.

<sup>6</sup>One full-size, one half-size; 8525-L01, -L04 models use half-size slot for Token-Ring Adapter.

<sup>7</sup>OS/2 client support will be available in a future release of OS/2 LAN Server.

<sup>8</sup>AIX Personal System/2 available in a future release.

<sup>9</sup>Models 65 SX, 80 386, 90 XP 486, and 95 XP 486 have built-in SCSI adapters; all other supported models must have SCSI adapter installed.



| <b>70 486</b>   | <b>80 386</b>   | <b>90 XP 486</b>  | <b>95 XP 486</b>  |
|---|---|---|---|
| 8570-B61, -B21  | 8580-081, -161, -321, -A16, -A31  | 8590-0J5, -0J9, -0KD  | 8595-0J9, -0JD, -0KD  |
| i486<br>Built-in<br>25  | 80386<br>80387<br>20 (-081, -161, -321)<br>25 (-A16, -A31)                  | i486<br>Built-in<br>25 (-0J5, -0J9)<br>33 (-0KD)                            | i486<br>Built-in<br>25 (-0J9, -0JD)<br>33 (-0KD)                            |
| 8KB   | 64KB (-A16, -A31)   | 8KB (256KB optional)  | 8KB (256KB optional)  |
| Micro Channel<br>32-bit   | Micro Channel<br>32-bit   | Micro Channel<br>32-bit   | Micro Channel<br>32-bit   |
| 2MB-8MB   | 2MB-4MB (-081, -161, -321)<br>4MB-8MB (-A16, -A31)                          | 4MB-32MB  | 4MB-32MB  |
| 16MB  | 16MB  | 32MB  | 32MB  |
| Yes<br>VGA<br>Yes<br>No<br>Yes<br>Optional<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>VGA<br>Yes<br>No<br>Yes<br>Standard<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>XGA<br>Yes<br>No<br>Yes<br>Standard<br>Optional<br>Yes<br>Yes<br>Yes | Yes<br>XGA<br>Yes<br>No<br>Yes<br>Standard<br>Optional<br>Yes<br>Yes<br>Yes |
| 1.44MB/2  | 1.44MB/2  | 1.44MB/2  | 1.44MB/2  |
| 60 (-B61)<br>120 (-B21)   | 80-1.04GB (-081)<br>160-1.12GB (-161, -A16)<br>320-1.28GB (-321, -A31)      | 80-720 (-0J5)<br>160-800 (-0J9)<br>320-960 (-0KD)                           | 160-1.44GB (-0J9)<br>320-1.6GB (-0JD, -0KD)                                 |
| 27ms (60MB)<br>23ms (120MB)   | 17ms (80MB)<br>16ms (160MB)<br>12.5ms (320MB)                               | 17ms (80MB)<br>16ms (160MB)<br>12.5ms (320MB)                               | 16ms (160MB)<br>12.5ms (320MB)  |
| 3   | 7   | 3   | 6   |
| 132-watt  | 225-watt<br>242-watt (-A16, -A31)   | 194-watt  | 329-watt  |
| 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>1.2  | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>Yes <sup>8</sup>                             | 3.3, 4.0<br>SE, EE 1.2, 1.3<br>Yes <sup>8</sup>                             |

## IBM PS/2 options

## Graphics and multimedia

## Other features

Additional cards and options are available—consult your IBM marketing representative or IBM Authorized Dealer.

*\*Other part numbers may be required to support a specific device or function*

\*\*There is more than one part number for this type of device, depending on specific systems supported.

**\*\*There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.**



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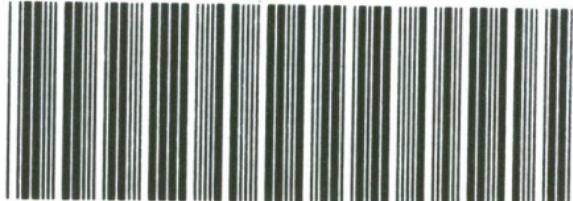
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